

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1210494

Luminaire Tested: **ARCH3-140-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14088 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

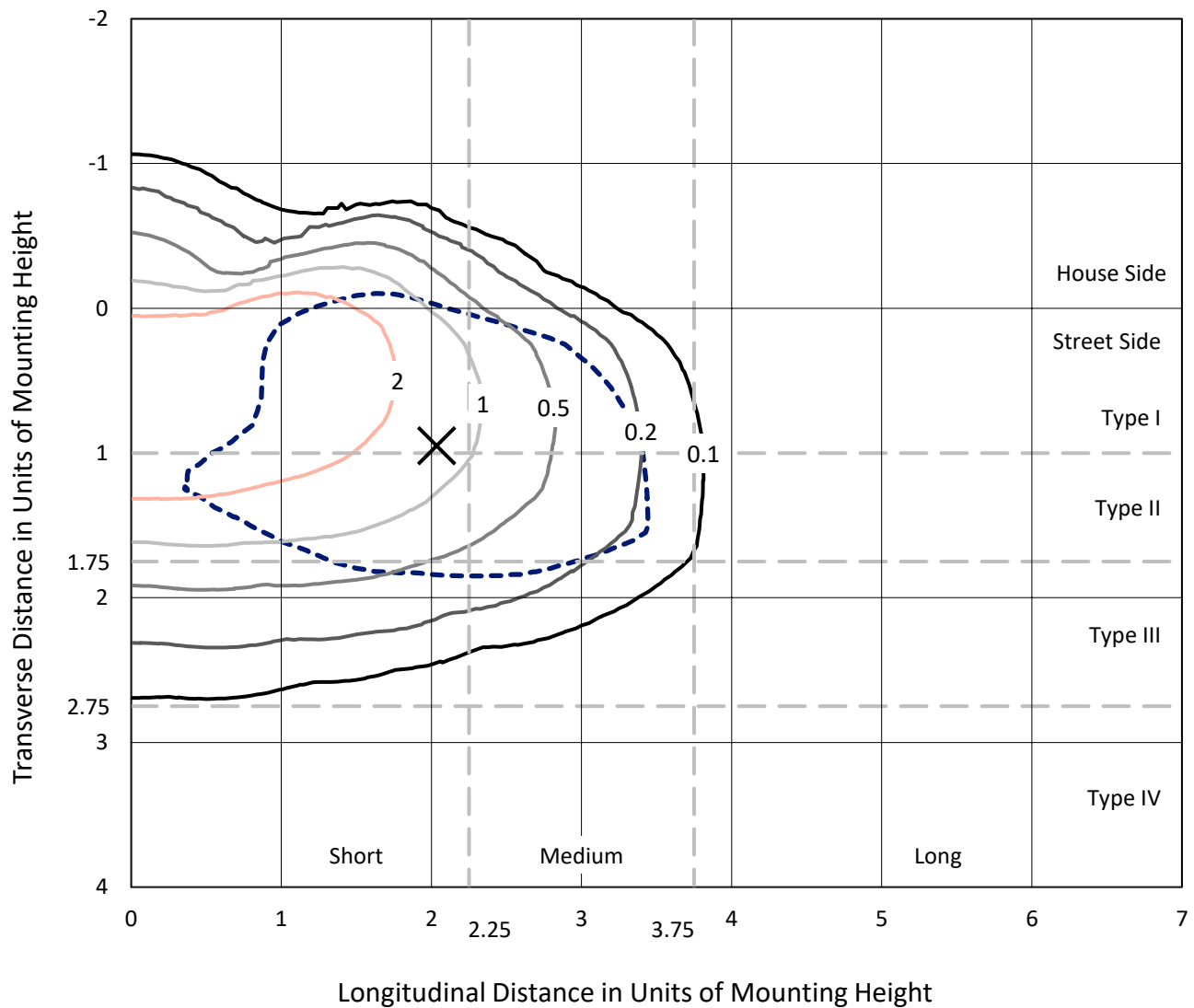
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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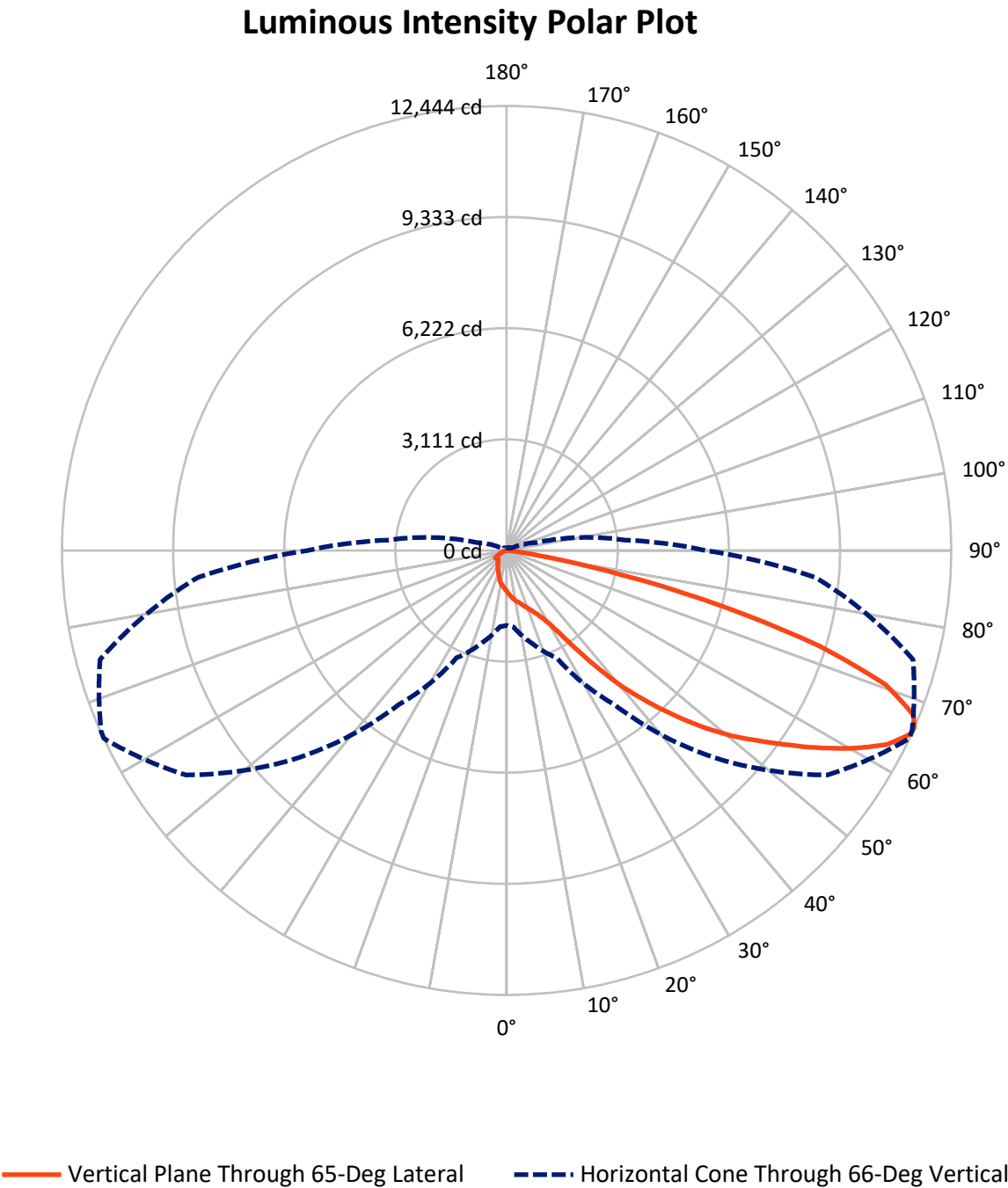
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1662.7	0.0	1662.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12425.3	0.0	12425.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	14088.0	0.0	14088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	0.8
10°-20°	322.1	2.3
20°-30°	589.6	4.2
30°-40°	1198.0	8.5
40°-50°	2529.8	18.0
50°-60°	3889.2	27.6
60°-70°	3914.7	27.8
70°-80°	1462.7	10.4
80°-90°	73.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14088.0	100.0
0°-180°	14088.0	100.0

Coefficient of Utilization



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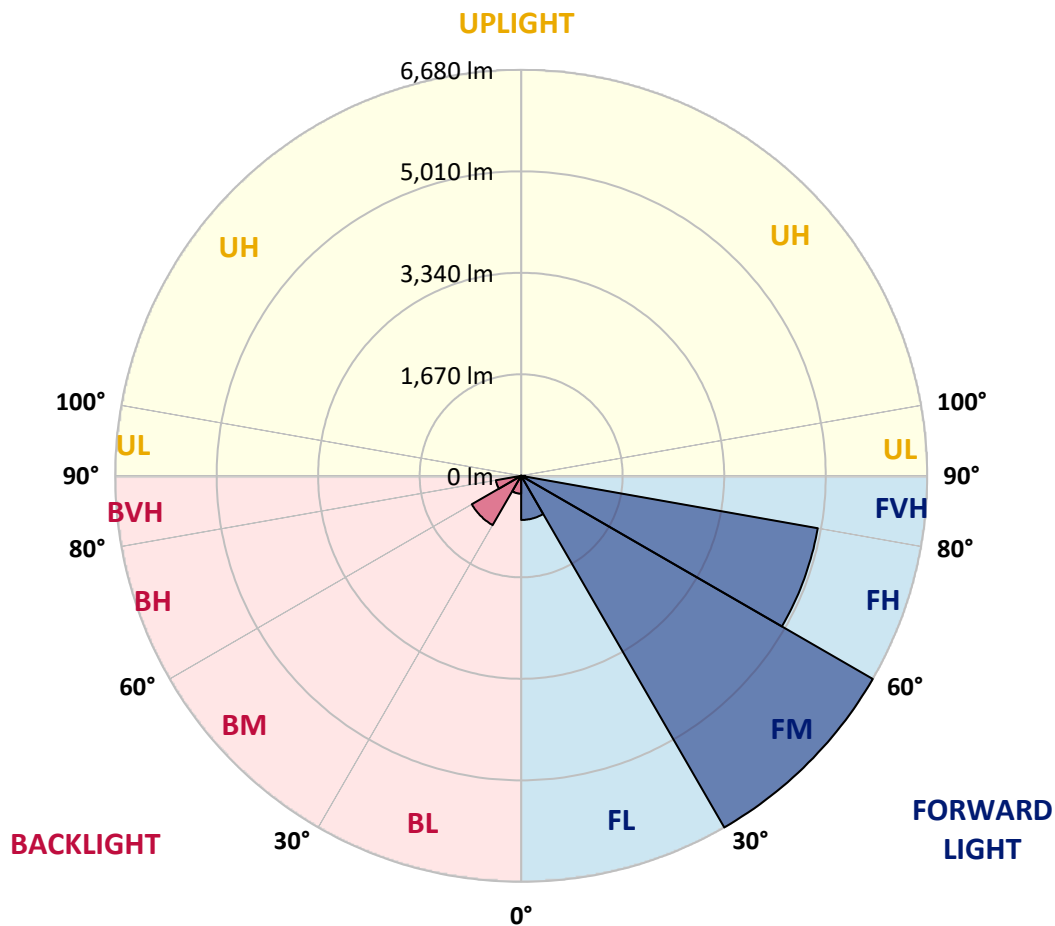
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	726.2	5.2			
FM	(30°-60°)	6679.5	47.4			
FH	(60°-80°)	4955.1	35.2			G2/5000
FVH	(80°-90°)	64.5	0.5			G1/100
BL	(0°-30°)	294.3	2.1	B1/500		
BM	(30°-60°)	937.4	6.7	B1/1000		
BH	(60°-80°)	422.4	3.0	B1/500		G1/500
BVH	(80°-90°)	8.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8
2.5°	1308.8	1311.4	1306.3	1296.0	1285.8	1273.0	1252.6	1219.4	1214.2	1191.2	1165.7
5°	1398.3	1403.4	1395.7	1393.2	1388.1	1370.2	1342.1	1293.5	1288.4	1242.4	1183.6
7.5°	1429.0	1436.6	1431.5	1431.5	1431.5	1423.9	1411.1	1367.6	1359.9	1301.2	1211.7
10°	1452.0	1457.1	1454.5	1464.8	1472.4	1467.3	1459.6	1434.1	1426.4	1367.6	1250.0
12.5°	1487.8	1490.3	1492.9	1498.0	1510.8	1515.9	1513.3	1490.3	1485.2	1444.3	1298.6
15°	1521.0	1521.0	1523.6	1546.6	1564.5	1574.7	1577.2	1559.3	1554.2	1521.0	1359.9
17.5°	1551.7	1554.2	1561.9	1587.5	1618.1	1638.6	1651.4	1643.7	1636.0	1610.5	1431.5
20°	1597.7	1602.8	1610.5	1646.3	1676.9	1710.2	1735.7	1733.2	1730.6	1712.7	1515.9
22.5°	1676.9	1682.0	1694.8	1728.1	1758.7	1799.6	1843.1	1840.5	1832.9	1820.1	1615.6
25°	1797.1	1797.1	1804.7	1832.9	1871.2	1919.8	1960.7	1968.3	1960.7	1953.0	1740.8
27.5°	1947.9	1950.5	1950.5	1981.1	2016.9	2078.3	2129.4	2137.1	2137.1	2129.4	1909.6
30°	2157.5	2149.8	2144.7	2170.3	2208.6	2298.1	2387.6	2402.9	2395.2	2408.0	2147.3
32.5°	2517.9	2505.2	2461.7	2466.8	2489.8	2612.5	2763.4	2817.0	2814.5	2837.5	2530.7
35°	3016.4	2990.9	2927.0	2873.3	2870.7	3003.6	3233.7	3435.7	3433.1	3512.3	3113.6
37.5°	3578.8	3612.0	3491.9	3399.9	3371.8	3476.6	3773.1	4210.2	4233.2	4371.3	3877.9
40°	4330.4	4350.8	4197.4	4067.1	3934.1	3972.5	4363.6	5043.6	5084.5	5237.8	4642.2
42.5°	4984.8	5005.2	4915.8	4757.3	4588.5	4517.0	4959.2	5800.2	5833.5	6045.6	5429.6
45°	5429.6	5444.9	5475.6	5490.9	5299.2	5150.9	5687.8	6577.3	6618.2	6863.6	6199.0
47.5°	5777.2	5790.0	5851.4	6004.7	5966.4	5848.8	6429.1	7385.1	7395.4	7668.9	6948.0
50°	5938.3	5968.9	6119.8	6354.9	6523.7	6556.9	7234.3	8149.5	8177.6	8438.3	7656.1
52.5°	5759.3	5769.6	6150.4	6592.7	6932.7	7270.1	8042.1	8857.6	8939.4	9133.6	8292.6
55°	5156.0	5230.2	5807.9	6585.0	7254.8	7947.5	8906.1	9621.9	9696.0	9818.7	8852.4
57.5°	4455.6	4537.4	5240.4	6255.2	7392.8	8573.8	9706.2	10434.8	10485.9	10519.1	9366.3
60°	3849.8	3926.5	4649.9	5623.8	7254.8	9016.0	10450.1	11242.6	11286.0	11196.6	9624.4
62.5°	3105.9	3182.6	3911.1	4787.9	6712.8	9105.5	11002.3	11960.9	11978.8	11735.9	9466.0
65°	2341.6	2392.7	3001.1	3752.6	5764.4	8630.0	11127.5	12408.2	12390.4	11891.9	8990.5
66°	2098.7	2142.2	2679.0	3318.1	5271.1	8195.5	10958.8	12444.0	12426.1	11776.8	8678.6
67.5°	1809.9	1822.6	2264.9	2714.8	4409.6	7272.7	10445.0	12280.4	12295.8	11459.9	8108.6
70°	1413.6	1411.1	1666.7	1889.1	3011.3	5173.9	8711.8	11250.2	11324.4	10263.5	6914.8
72.5°	904.9	874.3	1022.5	1155.4	1753.6	3003.6	6352.4	9169.4	9294.7	8062.5	5150.9
75°	539.4	508.7	544.5	577.7	841.0	1444.3	3734.7	6239.9	6360.1	5168.8	3065.0
77.5°	403.9	391.1	393.7	365.5	373.2	541.9	1705.0	3297.6	3384.5	2116.6	1163.1
80°	309.3	276.1	258.2	271.0	245.4	214.7	634.0	1135.0	1188.7	501.0	242.8
82.5°	207.1	178.9	166.2	181.5	155.9	120.1	153.4	219.8	214.7	135.5	94.6
85°	107.4	92.0	92.0	92.0	79.2	58.8	66.5	89.5	89.5	71.6	56.2
87.5°	30.7	28.1	33.2	30.7	23.0	23.0	25.6	30.7	30.7	28.1	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8	1147.8
2.5°	1145.2	1135.0	1106.9	1086.4	1066.0	1048.1	1027.6	1022.5	1012.3	1014.8	1009.7
5°	1152.9	1124.8	1076.2	1030.2	994.4	963.7	925.4	910.0	889.6	881.9	876.8
7.5°	1163.1	1122.2	1050.6	986.7	925.4	864.0	802.7	766.9	743.9	733.7	726.0
10°	1186.1	1132.4	1037.9	938.2	833.4	746.4	685.1	659.5	644.2	641.6	639.1
12.5°	1216.8	1147.8	1025.1	876.8	738.8	657.0	618.6	611.0	608.4	608.4	605.8
15°	1262.8	1173.3	1004.6	805.2	664.6	608.4	590.5	577.7	572.6	572.6	572.6
17.5°	1308.8	1204.0	973.9	731.1	613.5	577.7	559.8	552.2	547.0	549.6	547.0
20°	1367.6	1239.8	933.0	667.2	580.3	552.2	534.3	526.6	524.0	524.0	524.0
22.5°	1434.1	1280.7	881.9	618.6	552.2	526.6	508.7	501.0	495.9	498.5	498.5
25°	1523.6	1331.8	828.2	570.1	524.0	501.0	480.6	470.4	470.4	472.9	475.5
27.5°	1638.6	1393.2	774.6	539.4	498.5	475.5	452.5	442.2	444.8	449.9	449.9
30°	1807.3	1477.5	720.9	506.1	470.4	444.8	424.3	414.1	419.2	429.5	429.5
32.5°	2047.6	1615.6	674.9	467.8	429.5	401.3	380.9	373.2	386.0	406.5	406.5
35°	2477.0	1868.7	646.7	429.5	386.0	352.8	327.2	319.5	337.4	363.0	363.0
37.5°	3052.2	2275.1	657.0	396.2	350.2	311.9	283.7	273.5	286.3	309.3	317.0
40°	3693.8	2765.9	746.4	368.1	317.0	278.6	250.5	240.3	248.0	258.2	260.7
42.5°	4335.5	3287.4	915.2	347.7	291.4	250.5	225.0	217.3	222.4	225.0	227.5
45°	4974.5	3803.8	1127.3	334.9	268.4	227.5	201.9	201.9	204.5	204.5	204.5
47.5°	5580.4	4307.4	1349.7	332.3	248.0	204.5	184.1	186.6	186.6	189.2	189.2
50°	6153.0	4757.3	1574.7	340.0	230.1	184.1	168.7	168.7	168.7	171.3	168.7
52.5°	6631.0	5150.9	1809.9	352.8	212.2	168.7	153.4	153.4	153.4	155.9	153.4
55°	7083.5	5508.8	2050.1	370.7	196.8	155.9	140.6	135.5	135.5	138.0	135.5
57.5°	7451.6	5746.5	2277.7	373.2	184.1	143.2	130.4	122.7	122.7	122.7	122.7
60°	7466.9	5608.5	2344.1	327.2	168.7	130.4	117.6	107.4	109.9	109.9	109.9
62.5°	6978.7	4882.5	1884.0	245.4	150.8	117.6	107.4	97.1	97.1	97.1	97.1
65°	6020.1	3798.7	1104.3	194.3	130.4	104.8	94.6	86.9	86.9	86.9	84.4
66°	5570.2	3330.8	846.1	176.4	122.7	102.3	92.0	84.4	81.8	79.2	79.2
67.5°	4836.5	2633.0	529.2	155.9	112.5	94.6	84.4	76.7	74.1	71.6	71.6
70°	3642.7	1671.8	258.2	120.1	97.1	81.8	74.1	66.5	63.9	61.4	58.8
72.5°	2556.3	979.1	135.5	92.0	79.2	71.6	63.9	56.2	53.7	51.1	51.1
75°	1444.3	472.9	89.5	66.5	63.9	58.8	53.7	46.0	43.5	43.5	43.5
77.5°	547.0	163.6	61.4	48.6	51.1	46.0	38.3	38.3	35.8	38.3	35.8
80°	143.2	71.6	38.3	35.8	38.3	33.2	28.1	30.7	30.7	30.7	30.7
82.5°	76.7	40.9	23.0	25.6	23.0	23.0	17.9	20.5	23.0	20.5	23.0
85°	53.7	20.5	12.8	12.8	10.2	10.2	7.7	10.2	12.8	10.2	10.2
87.5°	28.1	7.7	7.7	7.7	7.7	5.1	2.6	0.0	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)